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FIELDOT BELGIACO ALES BG Willie B. Nance, Jr., USA Program Manager NND Joint Program 371881W OLGITAVE

19991116 039

More Mature, And Evolving More Rapidly "The Ballistic Missile Threat Is Broader, Than Has Been Reported By The U.S. Intelligence Community."

-The Rumsfeld Commission August 4, 1998

"....Provide For The Common Defense...

-Preamble, Constitution Of The United States

Ċ,

1975

Development Has Been A
Priority For The Joint Chiefs
And The Uniffed Commander "National Missile Defense

General Henry H. Shelton Chairman Joint Chiefs of Staff January 20, 1999

Jeiense System Capable Of Defer the Territory Of The United States Against Limited Ballistic Missile Attack..."

The National Missile Defense Act Of 1999 Section 2: National Missile Defense Policy Awaiting Presidential Signature "We are committed to the Development Of a Limited National Missile Defense

Samuel R. Berger Assistant to the President for National Security Affairs January 12, 1999

The NMD Program Cannot Afford To Faill," Jaques Ganst

Secretary of Defense January 20, 1999

Under Secretary of Defense (Acquisition & Technology) February 2, 1999



MISSION



A System to Defend U.S. Agamsta Limited Strategie Davalop, Danonsirala, And Daoloy (Whan Diraglad) Ballistic Missile Inteat By A Frogue Nation.

- By 2000, Be In A Position To Make A Deployment Decision Based On An Assessment Of;
- System Technology & Operational Effectiveness
 - Status Of Threat
- System Cost
- Arms Control Objectives
- Develop System Consistent With
- Deployment May Requife ABM
- Reduce Ris Phase Program Key Decisions for



NMD KEY REQUIREMENTS



1. US Defense

2. Flumann-In-Continol

3. Highly Automated BM/C³

Protect All 50 States Against A Limited Attack



JOINT PROGRAM TEAM



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NMD) Program Manager

Deputy For System Integration Sys

System Development

Prg Mgmt & Control Office

JPO Elements

Ground-Based	Early,	Command,	Space
Elements	Warning	Control &	Based
Interceptor/Radar	Radar	Communication	Sensors
PEO-AMD	Electronic Systems Center	JPO	Space & Missile Systems Command

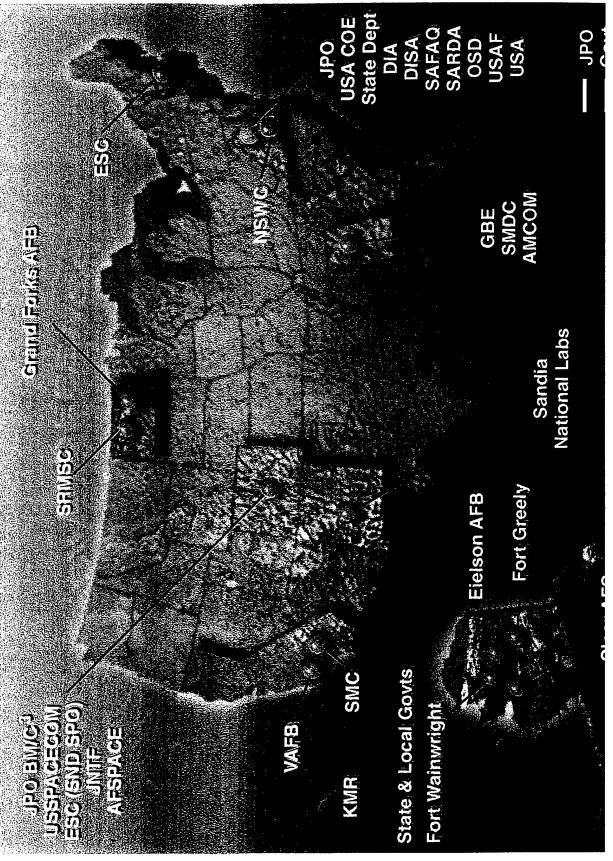
Support Agencies

- (4)(B) (6)
- State Department
- WOOMOWESON "
- · Doferse friennsijen Supportivig
- · Defense Intelligence Agency.
- · Space, & Missile, Defense, Command
- 9. ANTS/PANCE:
- · Alaska Command
- . Corps Of Engineers
- Strategic Nuclear Deterrent SPO
- · Vandenberg Air Force Base
- *. Navel Surface Warfale Center
- · Aviation & Missile Command
- a single American Tage Factor
- · Kwajalein Missile Test Range
- Sandia National Labs



NATIONAL MISSILE DEFENSE - JPO GOVERNMENT -







KEY DECISIONS



Element Technology Programs	> Initia	Initial De	Initial Development	opment -m			ာ	ınt
Milestone Reviews	3 4 1	2 3 4 n DAB	_	F139	4 1 2	UU FY02 3 4 1 2 3 4 1 2 3 4 Site ATP	2	FY05 1 2 3 4 1 2 3 4 OIPT OIPT Complete \(\)
Integrated Flight Tests	Flight 1	. ≝	٠ ٨		9 5 1	7 8 9 10 11	7 8 9 10 11 12 13 14 15 16 17 18	Deptoyment A A A A A A A A A A A A A A A A A A A
	BRR		Decision.	Today		Commit To Select Site Approve Cc Decide On I	 Commit To Deployment Select Site Approve Construction Contract Award Decide On Emergency Deployment 	Award
Prepa	Preparation 🔻	Decision	> Decision-Making				anded former	
	oo, eunc	o	00, kinc			• • A	Approve Start Of Site Construction Approve Initiation Of Sensors And BM/C ³	onstruction insors
						• D	Decide On Emergency Deployment	Deployment

Phased Deployment Based Upon Technical Progress

 Approve Weapon Build & Deployment



NMD DEPLOYMENT DECISION



19 (-10) KI (0) 1/2

President Congres

Administration Level

National Threat / Policy Assessment

Recomm To Congress

Department Level

· Assessment To, NSC,

district ... (...) with the section of the sectio

DAE / DAB Level USD (A&T)

Findings To SECDEF

Program Level

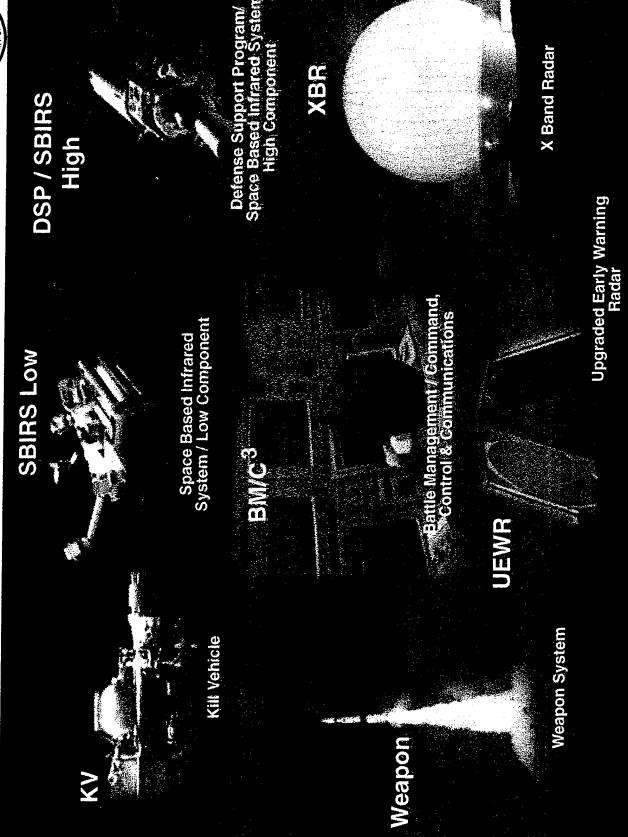
NMD PM, User

 Deployment / Operational Readiness Assessment



SYSTEM ELEMENTS

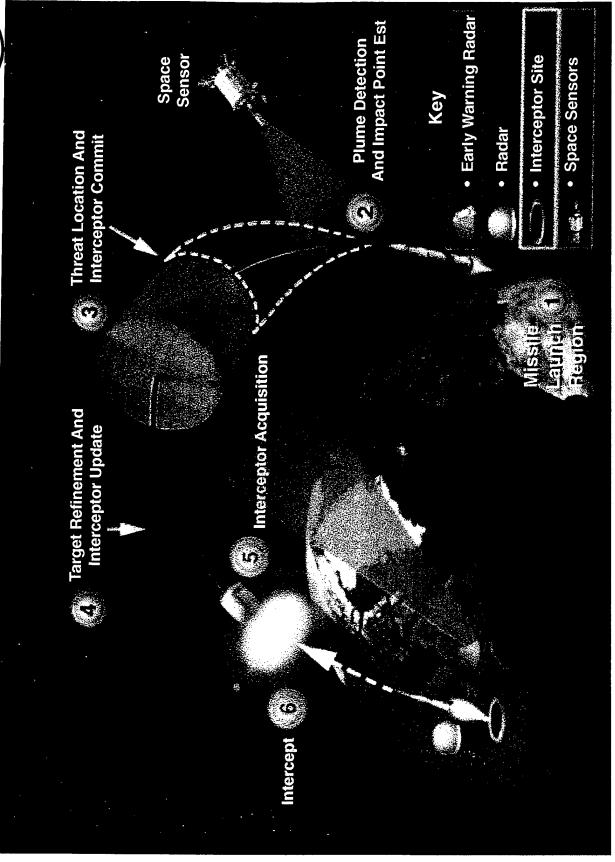






NMD ENGAGEMENT CONOPS







NMD ELEMENT STATUS - DSP / SBIRS







- DSP Operational
- NIMD Working Group Established
 With Air Force In FY97
- SBIRS High - IOC - FY06
- SBIRS Low - FOC - FY10



Air Force Managed Programs



NMD UEWR STATUS



- Initial Integration With BM/C3 Successfully Demonstrated During Integrated Ground Testing (IGT-3) - FEB 99
- Successfully Tracked Risk Reduction Flight 4
- Ready For Risk Reduction Flight 6 And Integrated Flight Test 3

Upgraded Early

Warning Radar



X BAND RADAR



- Prototype Operating At Kwajalein
- Performance Demonstrated In Risk Reduction Flights - Detected And Tracked Incoming Objects
- Demonstrated Initial Integration With BM/C³
- Ready For Risk Reduction Flight Test 6
 And Integrated Flight Test 3

X Band Radar



NMD WEAPON STATUS



- Successful Sensor Flight JAN 98
 - Successful Hover Test NOV 98
- IFT-3 Unit In Ground Test



Operational Booster

- GEIMI Motor Ready For Integration
 - OCT 99 (Over 520 Flown)
- Orbus Motor (25 Produced, 7 Flown No Failures)
- Successful Burn Test JUN 99
- First Verification Test Scheduled
 - 00 8 -



NMD BM/C³ / IFICS STATUS

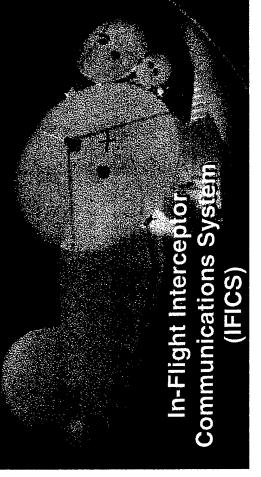




Battle Management, Command Control & Communications

 BM/C³ Demonstrated In Major Command And Control Exercise DEC 98 Demonstrated Initial Integration With Upgraded Early Warning Radar And X-Band Radar - FEB 99

Ready For Risk Reduction Flight
 Test 6





INTEGRATED FLIGHT **TEST PROGRAM**





Program Objectives and croats

- a Tisk reduction For Kill Venicle resis
 - Damonshale Kill Vehicla Sansor
- Performance. Collect Targer Signatures To Validate Discrimination Algorithms
- Sensor Fly-By Activate Test Infrastructure



- Demo Target Complex Acquisition
- Dermo Omboard Discrimination And Target Selection
- Demo Endgame Performance
- Demo Interoperability Of Elements



 Demo End-to-End Integrated System Performance

Integrated Flight Test / Intercept







imary Objective

- Demonstrate EKV Flight Test Performance
 - EKV Deployment And Orlentation Target Complex Acquisition
- Track Mariagement Real-Time Onboard Discrimination
 - Enci Game Performance
 - Divert And Homing

Key Dates

- April KV Blowdown, Test
- 224 July Ship Flight Payload ËKV System Test Ar*e*a (EŜT
- August Ship Filgijt Test To KMR
- 1000)-Scheduled Tes

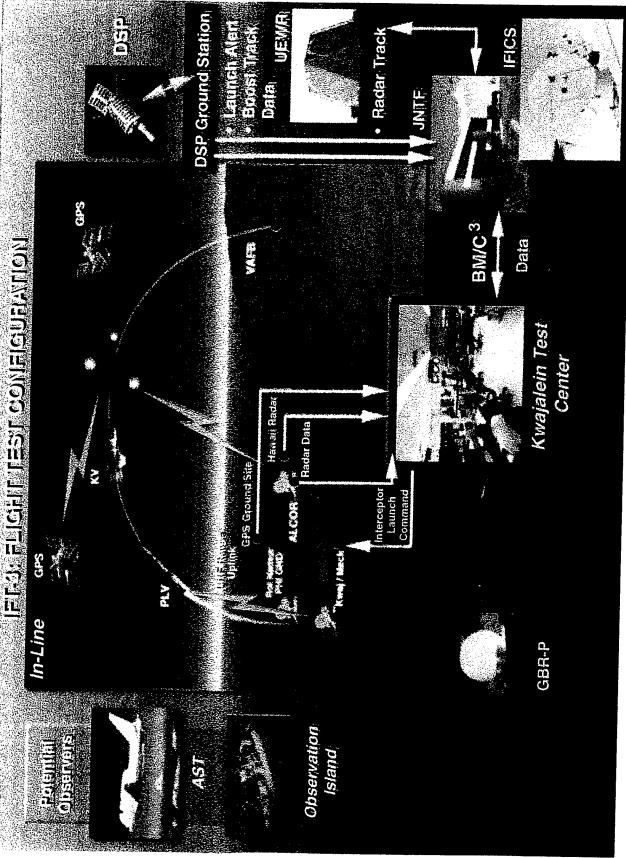
Secondary Objective

- Sensor And BM/C ³ Test Detection And Acquisition
- System Track Performance
- Integration Of System Elements
- Data Collection
- V&V Of Models And Simulations
- Element And System Performance Analyses
 - Impact And Lethality Analyses
- Reliability, Availability, Maintainability Analyses
 - Assessment Of Test Infrastructure



IFT-3: FLIGHT TEST CONFIGURATION















FT-3 IS A Complex Undertaking



Prilmary Objective Is To Demonstrate Flight Test Performance



IFT-3 Will Provide Critical Data For Further Development



DEPLOYMENT STATUS



Grand Forks, ND

- Fact Finding Visits And Siting Studies Conducted For ND And AK
- Notice Of Intent (NOI) NOV 98
- Prototype Site Designs Initiated
- Public Scoping Meeting Held In AK, NID) And VA - DEC 98;
- Draft Environmental Impact Statement (EIS) - 4Q99
- Public Hearings On Draft EIS Scheduled
- Industry Briefings For Construction Contracts - 1Q00
- Fort Greely, AK

100% Site Designs Complete - JAN 00



ACCOMPLISHMENTS







Capability Increment 3 Battle Management Cmd, Ctrl, & Comm

Integrated Flight Tests 1A & 2 Integrated Ground Test 1A-3 Risk Reduction Flights 1-5



Fort Greely, AK

Scoping Visits Conducted EiS Underway For ND & AK





Construction At Kwajalein



Requirements Documents System